Project: 3
Course: EECS3421
Deadline: Apr 4th, 11:59pm
Submission: via eClass

This project is going to assess your ability to create a program written in java or python with SQL embedded in it. The idea is to ensure that your code is secure enough that is resistant to SQLi.

Before you start, I would like to remind you that this assignment is different from the assignments that you have completed in the lecture, as this assignment is an **exam** that you take home. This means you can neither discuss your solution with peers nor get help from other resources including but not limited to peers/others/ChatGPT. Submitting the solution for this project is considered as an approval that the work is 100% yours. Therefore, we reserve the right to check for any kinds of academic dishonesty including plagiarism and cheating.

Refusing to follow the policy stated above, is a violation of academic integrity that will have a serious consequence. Please read about the definition of academic integrity and the penalty that one may face, in case they violate academic integrity in https://lassonde.yorku.ca/student-life/academic-support/academic-honesty-integrity .

Problem Description:

For this assignment, we are using the same queries that you have implemented for the second project. You should write a java or python code that securely embeds the following query:

> *What percentage of the assessment for the given course, meets the given learning outcome. The course code and CLO is given. You can disregard the point and the weight of the assessments and/or questions.*

The above query is the same as query 7 in project 2. The course code that looks like "3421" and the CLO that is an int number is read into the program. It is up to you to implement this using a GUI or command line. The only thing that is important is that your code

- Gets two user inputs,
- Returns correct result,
- It is a secure code.

Please ensure that your code is written in the default package.

Submission

You submit one .java file, that contains the query given above.
You will present your implementation on Wednesday April 5th. Please register for a timeslot in the attached link.

Marking Scheme:

[2 points]: If the code works correctly.
[3 points]: If the code is written in a secure way.

[5 points]: is your answers to our “what-If” questions are correct. The questions are about your implementation of the second and third project. For example,

- what if in the query above we look for the percentage of “students” instead of “assessment”.
- What if the relationship between CLO and GAI was 1:1 instead of 1:M. How do you change query 5